

Special Specification 4009

UHMW-PE Fender Pads



1. DESCRIPTION

Provide and install UHMW-PE (ultrahigh molecular weight polyethylene) pads for use on marine fender systems.

2. MATERIALS

Provide UHMW-PE material stabilized against ultraviolet radiation and conforming to the following physical properties:

Property	Value	Test Method
Molecular Weight	3.5 - 6 million	ASTM D 4020-05
Izod Impact Strength Double notch, 73°F	18 ft-lbs/in ² Min.	ASTM D 256-10 Method A
Hardness	65 Durometer Min.	ASTM D 2240-05
Tensile Strength Yield Break Elongation @ Break	3000 psi Min. 4500 psi Min. 300% Min.	ASTM D 638-10

The UHMW-PE may be either virgin or reclaimed material.

3. GENERAL

Fabricate and machine pads to meet plan requirements and within following tolerances prior to delivery:

Pad Size	
Thickness	+/- 1/16"
Width and length	+/- 1/4"
Machining	
Hole location	+/- 0.05"

Install pads as shown on the plans. Replace any pads damaged by over tightened bolts or gouges at the Contractor's expense.

4. MEASUREMENT

UHMW-PE Fender Pads will be measured by the foot, complete and in place.

5. PAYMENT

The work performed and materials furnished in accordance with this Item and measured as provided under "Measurement" will be paid for at the unit price bid for "UHMW-PE Fender Pads".

The unit price bid for "UHMW-PE Fender Pads" is full compensation for all machining, furnishing and installation of the pads, bolts, nuts, washers, galvanized clips, hardware and incidentals; and for furnishing tools, equipment, labor, materials and incidentals necessary to complete the work.